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PATENT COOPERATION TREA

PCT



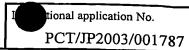
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference | FOR FURTHER ACTION | See Farm DOTADD 1444 | | | |
|--|---|--|--|--|--|
| YCT-803 | | See Form PCT/IPEA/416 | | | |
| International application No. PCT/JP2003/001787 | International filing date (day/month/year) | | | | |
| | 19 February 2003 (19.02.2003) | | | | |
| International Patent Classification (IPC) or na F16L 37/30, 55/07 | ational classification and IPC | | | | |
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| Applicant | | | | | |
| | NITTO KOHKI CO., LTD | | | | |
| This report is the international prelim Authority under Article 35 and trans | inary examination report, established by the nitted to the applicant according to Article | nis International Preliminary Examining 36. | | | |
| 2. This REPORT consists of a total of | 4 sheets, including this cove | | | | |
| 3. This report is also accompanied by A | NNEXES comprising: | r sneet. | | | |
| | to the International Bureau) a total of 1 | | | | |
| | | | | | |
| sheets of the descri and/or sheets conta Administrative Inst | | been amended and are the basis of this report hority (see Rule 70.16 and Section 607 of the | | | |
| sheets which super | sede earlier sheets, but which this Author | ty considers contain an amendment that goes | | | |
| beyond the disclosi Supplemental Box. | are in the international application as filed | , as indicated in item 4 of Box No. I and the | | | |
| | d Bureau only) a total of (indicate i | ype and number of electronic carrier(s)) | | | |
| readable form only, as ind Administrative Instructions | icated in the Supplemental Pox Pelating | ing and/or tables related thereto, in computer to Sequence Listing (see Section 802 of the | | | |
| 4. This report contains indications relating | ng to the following items: | | | | |
| Box No. I Basis of the repo | ort | | | | |
| Box No. II Priority | | | | | |
| Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability | | | | | |
| Box No. IV Lack of unity of invention | | | | | |
| Box No. V Reasoned statem | ent under Article 35(2) with regard to nov lanations supporting such statement | elty, inventive step or industrial applicability; | | | |
| Box No. VI Certain documen | statement | | | | |
| Box No. VII Certain defects in | n the international application | | | | |
| 1 1 | ions on the international application | | | | |
| Date of submission of the demand | Data of an Island | Carl | | | |
| | Date of completion | OI this report | | | |
| 09 August 2004 (09.08.20 | 06 De | ecember 2004 (06.12.2004) | | | |
| Name and mailing address of the IPEA/JP | Authorized officer | | | | |
| Facsimile No. | Telephone No. | | | | |

Translation

INTERNATIONAL PRED. NARY REPORT ON PATENTABILITY



| Box N | o. I | Basis of the report |
|-------------|-----------------------|---|
| 1. Wit | h regard erwise in | I to the language, this report is based on the international application in the language in which it was filed, unless |
| | This which | report is based on translations from the original language into the following language, this language of a translation furnished for the purpose of: |
| | | international search (under Rules 12.3 and 23.1(b)) |
| | | publication of the international application (under Rule 12.4) |
| | | international preliminary examination (under Rules 55.2 and/or 55.3) |
| ł | | |
| | are not | d to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report): International application as originally filed/furnished |
| | the de | escription: |
| | pages | as originally filed/firmished |
| | pages | received by this Authority on |
| | pages | leceived by this Authority on |
| | the cla | aims: |
| | pages | |
| | pages' | , as amended (together with any statement) under Article 19 |
| | pages' | 2 received by this Authority on 24 November 2004 (24.11.2004) |
| | pages' | received by this Authority on |
| \boxtimes | the dra | awings: |
| | pages | 1-6 on ovicinally 61-4/5 |
| | pages* | 1-6 , as originally filed/furnished received by this Authority on |
| | pages* | received by this Authority on |
| | a sequ | ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing. |
| · <u></u> | | see Supplemental Box Relating to Sequence Listing. |
| 3. | The an | nendments have resulted in the cancellation of: |
| الحيكا | | |
| | | the description, pages |
| | ₩ t | the claims, Nos1 |
| | t | the drawings, sheets/figs |
| | _ t | he sequence listing (specify): |
| | | any table(s) related to sequence listing (specify): |
| | | |
| 4. | (Rule 7 | sport has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (0.2(c)). |
| | H " | he description, pages |
| | <u></u> " | he claims, Nos. |
| | L ti | he drawings, sheets/figs |
| | L t | he sequence listing (specify): |
| | a | ny table(s) related to sequence listing (specify): |
| | | |
| * If item | 4 appli | ies, some or all of those sheets may be marked "superseded." |
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ARY REPORT ON PATENTABILITY

| Internat | ional application No. |
|----------|-----------------------|
| | PCT/JP03/01787 |

| Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | |
|---|--------|-----|-----|
| 1. Statement | | | |
| Novelty (N) | Claims | 2-5 | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | 2-5 | YES |
| | Claims | | NO |
| Industrial applicability (IA) | Claims | 2-5 | YES |
| | Claims | | NO |
| | | | |

2. Citations and explanations (Rule 70.7)

Document 1: JP 8-82395 A (Kazuo YANO), 26 March, 1996, Column 9, line 27 to column 10, line 3 Document 2: US 6089539 A (Nitto Kohki Co., Ltd.), 18 July, 2000, Column 5, line 55 to column 6, line 10 & JP 11-108279 A (Nitto Kohki Co., Ltd.), 20 April, 1999, Column 8, lines 2 to 15 Document 3: JP 54-003159 A (Kensaku NAKAMURA), 11 January, 1979, claims, page 3, upper left column, lines 9 to 18, Figs. 4 and 5

Claims 2-5

The inventions of claims 2-5 appear to involve an innovative step over documents 1 and 2 cited in the ISR and newly cited document 3.

The point of a purge outlet being constituted so as to be able to attain a state that communicates and a state that does not communicate with a passage for fluid recovery provided in a socket by differences in the angle of rotation of a rotating shaft of a ball valve is neither described in any of the documents nor obvious for a person skilled in the art.

| Internat | tional application No. |
|----------|------------------------|
| | PCT/JP03/01787 |

| ourself paor | ished documents (R | ule 70.10) | | | | |
|--------------|---|------------|--------------|--------------------|--------------|---|
| Appl Pa | pplication No. Publicat Patent No. (day/mon | | | | r) | Priority date (valid claim (day/month/year) |
| JP 20 | JP 2003-097782 A | 03.04.2003 | | 26.09,200 | 1 | |
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| | isclosures (Rule 70) | - | Date of non- | written disclosure | referring to | written disclosure non-written disclosure y/month/year) |
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